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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/580,076	05/18/2006	Kathleen D'Halluin	58764000062 4917	
21967 HUNTON & V	7590 05/15/2007 VILLIAMS LLP		EXAM	INER
INTELLECTUAL PROPERTY DEPARTMENT 1900 K STREET, N.W.			ZHENG, LI	
SUITE 1200	21, N.W.		ART UNIT	PAPER NUMBER
WASHINGTO	N, DC 20006-1109		1638	
			MAIL DATE	DELIVERY MODE
			05/15/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
Office Action Summary		10/580,076	D'HALLUIN ET AL.		
		Examiner	Art Unit		
		Li Zheng	1638		
 Period for	The MAILING DATE of this communication app Reply	ears on the cover sheet with the c	orrespondence address		
WHICH - Extens after SI - If NO p - Failure Any rej	RTENED STATUTORY PERIOD FOR REPLY ALEVER IS LONGER, FROM THE MAILING DATE of time may be available under the provisions of 37 CFR 1.13 X (6) MONTHS from the mailing date of this communication. eriod for reply is specified above, the maximum statutory period we to reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠ F	Responsive to communication(s) filed on <u>18 O</u>	<u>ctober 2006</u> .			
′=	This action is FINAL . 2b)⊠ This action is non-final.				
•	Since this application is in condition for allowar	·			
C	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4t	53 O.G. 213.		
Dispositio	n of Claims				
5)	Claim(s) <u>1-31</u> is/are pending in the application. a) Of the above claim(s) is/are withdray Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) <u>1-31</u> are subject to restriction and/or expressions.				
Applicatio	n Papers				
10)□ T , , ,	he specification is objected to by the Examine he drawing(s) filed on is/are: a) acception and acception and request that any objection to the Replacement drawing sheet(s) including the correct the oath or declaration is objected to by the Example.	epted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is object.	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).		
Priority ur	nder 35 U.S.C. § 119				
12)	cknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Copies of the certified copies of the priority documents Copies of the certified copies of the priority documents application from the International Bureause the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive ı (PCT Rule 17.2(a)).	ion No ed in this National Stage		
	of References Cited (PTO-892)	4) 🔲 Interview Summary			
3) Inform	of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO/SB/08) No(s)/Mail Date	Paper No(s)/Mail Do 5) Notice of Informal F 6) Other:			

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3, 7-8 and 23 (partial), drawn to a method for introducing a foreign DNA of interest into a preselected site of a genome of a plant cell wherein the method requires that flanking region of gene of interest has at least 80% identity to a DNA region flanking the preselected site.

Group II, claim(s) 1-2, 4-8, 11-18, 23 (partial) and 31, drawn to a method for introducing a foreign DNA of interest into a preselected site of a genome of a plant cell, wherein the double stranded DNA break at the preselected site is made by a rare cutting restriction enzyme.

Group III, claim(s) 1-2, 7-10, 19-22 and 23 (partial), drawn to a method for introducing a foreign DNA of interest into a preselected site of a genome of a plant cell, wherein an additional step, which is incubating the cell in a plant phenolic compound, is required.

Group IV, claim(s) 24-30, drawn to isolated DNA fragments.

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The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The technical feature linking the inventions of Groups I-III is a method for introducing a foreign DNA of interest into a preselected site of a genome of a plant cell as described in claim 1. However, this method is anticipated by Choulika et al (US 20020107214). Choulika et al. teach A method of repairing a specific sequence of interest in chromosomal DNA of a cell comprising the steps of: (a) inducing in the cell double stranded cleavage at a site of interest using a chimeric restriction endonuclease, said chimeric restriction endonuclease comprising a DNA binding sequence and a DNA cleavage domain; and (b) introducing targeting DNA into the cell under conditions appropriate for introduction of the targeting DNA into the site of interest, wherein said targeting DNA comprises (1) DNA homologous to the region surrounding the site of interest and (2) DNA which repairs the specific sequence of interest upon recombination between said targeting DNA and the chromosomal DNA. Choulika et al also teach that the cell could be a plant cell (paragraph [0052]) and that bombardment or direct uptake can be used to transfer DNA (paragraph [0048]). Therefore this technical feature does not constitute a special technical feature as defined by PCT Rule 13.2, because it does not define a contribution over the prior art.

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The inventions listed as Group IV and Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

Methods of Groups I-III do not require the double stranded DNA break being introduced by I-Scel restriction enzyme and therefore do not required nucleotide sequences of Group IV.

Applicants are reminded that different nucleotide sequences and amino acid sequences are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute different inventive concepts.

For Group IV, restriction to one of the sequences of SEQ ID NO: 1-4 is also required (note: should SEQ ID NO: 3 be elected, claims 26-28 would read on it).

Claims that do not read on the elected nucleotide sequence or polypeptide sequence will be considered withdrawn. Applicant is advised that a reply to this requirement must include an identification of the nucleotide sequence or polypeptide sequence that is selected. An election that does not identify the nucleotide sequence or polypeptide sequence will be considered nonresponsive. This requirement is not to be construed as a requirement for an election of species, since each nucleotide and amino acid sequence is not a member of single genus of invention, but constitutes an independent and patentably distinct invention.

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Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Li Zheng whose telephone number is 571-272-8031. The examiner can normally be reached on Monday through Friday 9:00 AM - 5:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on 571-272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

ELIZABETH MCELWAIN PRIMARY EXAMINER

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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